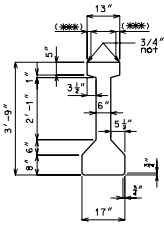
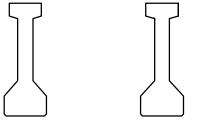
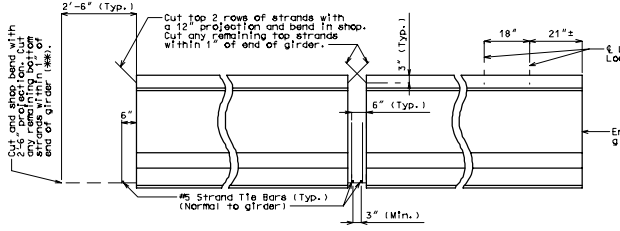
State	Proj. No.	Sheet No.
MD		



GIRDER DIMENSIONS



℄ GIRDER END OF GIRDER
STRAND ARRANGEMENTS

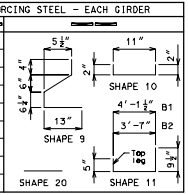


END BENT INTERMEDIATE BENT
STRAND DETAILS AT GIRDER ENDS

LOCATION OF LIFTING LOOPS

BILL OF REINFORCING STEEL - EACH GIRDER

MARK	SIZE & SHAPE	ACTUAL LENGTH	QUANTITY
XXX	X A1	XX'-XX"	20
XXX	X B1	5'-2"	11
16	6 B2	4'-7"	11
XXX	4 C1	13"	10
XXX	4 D1	2'-7"	9



Concrete for prestressed girders shall be Class A-1 with f'c = psi and f'ci = psi.

(+) Indicates prestressing strand.

Use strands with an initial prestress force of kips.

Prestressing tendons shall be uncoated, seven-wire, low-relaxation strands, 1/2 inch diameter in accordance with AASHTO M 203, Grade 270. Pretensioned members shall be in accordance with Sec 1029.

** At the contractor's option the location for bent-up strands may be varied from that shown. The total number of bent-up strands shall not be changed. One strand tie bar is required for each layer of bent-up strands except at end bents where require one bar on the bottom layer of strands only. No additional payment will be made if additional strand tie bars are required.

*** At contractor's option a 1-1/2" to 1-3/4" smooth finish strip is permitted to facilitate placement of preformed fiber expansion joint material or expanded or extruded polystyrene bedding material for the prestressed panels.

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures. Stirrup and Tie Dimensions.

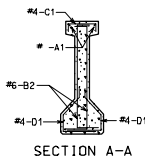
Actual lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1".

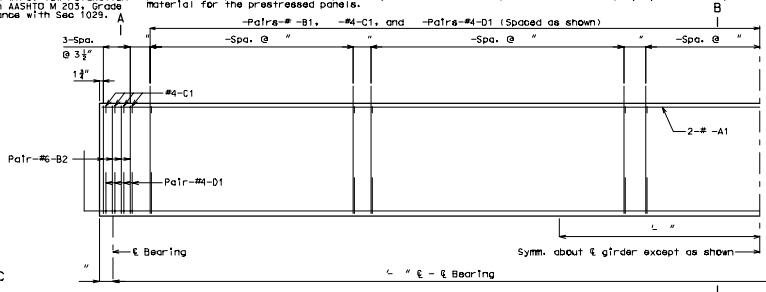
All reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

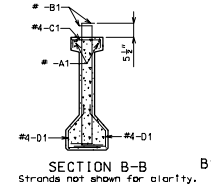


SECTION A-A
Strands not shown for clarity.

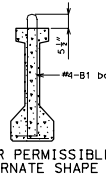


HALF ELEVATION OF GIRDER SPAN (-)

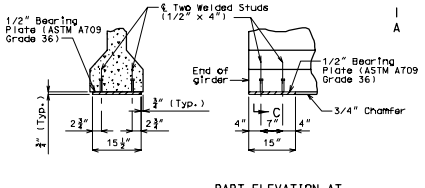
Exterior and interior girders are the same, except for coil ties, and coil inserts for slab drains and holes for steel intermediate diaphragms.



SECTION B-B
Strands not shown for clarity.



B1 BAR PERMISSIBLE ALTERNATE SHAPE



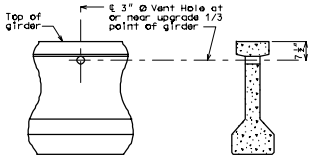
SECTION C-C

PART ELEVATION AT END OF GIRDER

BEARING PLATE DETAILS

Galvanize the 1/2" bearing plate (ASTM A709 Grade 36) in accordance with ASTM A123.

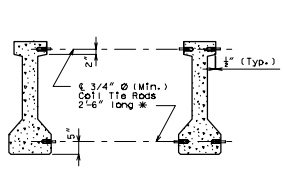
Cost of furnishing, galvanizing, and installing the½" bearing plate (ASTM A709 Grade 36) and welded studs in the prestressed girder will be considered completely covered by the contract unit price for Prestressed Concrete I-girder per each.



PART ELEVATION OF GIRDER

PART SECTION NEAR VENT HOLE

Place vent holes at or near upgrade 1/3 point of girders and clear reinforcing steel or strands by 1-1/2" minimum and steel intermediate diaphragm bolt connections by 6" minimum.



EXTERIOR GIRDERS AT INT. BENTS

EXTERIOR GIRDERS AT END BENTS INTERIOR GIRDERS AT ALL BENTS

DETAILS OF COIL TIES

Cost of 3/4" Ø coil tie rods placed in diaphragms will be considered completely covered by the contract unit price for Prestressed Concrete I-Girder.

Coil ties shall be held in place in the forms by slotted wire-setting-studs projecting through forms. Studs are to be left in place or replaced with temporary plugs until girders are erected, then replaced by coil tie rods.

For location of coil inserts at slab drains, see sheet no. .

For location of coil ties, see sheets no. & .

The 1-1/2" Ø holes shall be cast in the web for steel intermediate diaphragms. Drilling is not allowed.

For details of diaphragms, see sheet no. .

For Girder Camber Diagram, see sheet no. .

* Length of coil tie rods at exterior girders at end bents = " - ".

Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

Sheet No. of

COUNTY GDR 3